

| Hayes Brake / Delphi Action Item List |             |               |     |                   |                       |             |          |  |   |                       |
|---------------------------------------|-------------|---------------|-----|-------------------|-----------------------|-------------|----------|--|---|-----------------------|
| #                                     | Date Opened | Category      | O/C | Original Due Date | Revised Due Date      | Date Closed | Priority | Action Item  | Update  | Responsible           |
| 316                                   | 18-Dec-04   | Manufacturing | C   |                   |                       | 29-Mar-04   |          | Can Hayes visit PBR or Ambrake for a tour  | 3/29/04 - Message back from Tom Hack. His management denied the request for a tour. I left the offer open if anything changes.<br>3/25/04 - Follow-up message to Tom<br>3/2/04 - Spoke to Tom Hack (Ambrake Plant Manager) - he is ok with the visit, but needs to clear it with the board.<br>2/5/04 - Hayes to discuss if they are willing to                   | J. Elliott            |
| 317                                   | 18-Dec-04   | ABS           | C   |                   |                       | 23-Mar-04   |          | Data comparison  | 3/18/04 - Data summarized and presented for FL.<br>3/11/04 - Fulmer to summarize data for meeting on 3/18.<br>12/18/03 - TRC Updates - definite improvements over last year. Hi-co as good as before, low-co much better, transitions much better. Work on plotting early next year.  | Fulmer/<br>Sonnenberg |
| 318                                   | 18-Dec-04   | ABS           | C   |                   |                       | 7-Apr-04    |          | Fluid compatibility with cars and ABS  | 3/26/04 - Ford Postal vehicle was processed down the same line as the Ford Ranger - no special processing.<br>2/23/04 - Found an internet message that indicates DOT5 was eliminated in 1999 on postal vehicles.<br>2/17/04 - Message to G. Bellemare at Ford to ask about DOT5.<br>1/16/04 - Spoke to TIE at GM. Not sure if GM postal                           | Elliott               |
| 319                                   | 18-Dec-04   | ABS           | C   |                   |                       |             |          | Hydraulic chamber test in Dayton   | 5/19/04 - DOT5 activity on hold.<br>3/25/04 - How much of a performance degradation will occur due to valve issue.<br>3/18/04 - First round of DOT5 testing complete & presented to HB and H-D. Need to continue to looking at low temp anomaly<br>3/11/04 - Dot3 baseline complete, Dot5 to be complete by 3/15  | Cukovecki             |
| 320                                   | 22-Dec-04   | Motorcycle    | C   |                   |                       | 26-Mar-04   |          | Brake training class follow-up<br>- vehicle technical specification from GM as (example) of a VTS<br>- Investigate the possibility of brake boost for the front brake for FL using a DBC 7.4 style unit.<br>- Please provide a PPAP worksheet and an example project<br>- answer what "PDF" means on page 7-40 of training | 3/26/04 - Information sent to Russ Dudan.<br>2/5/04 - BSTS is OK - Elliott to work with Joe Sharp to get an example of a Delphi spec.   | Elliott               |
| 321                                   | 6-Jan-05    | Manufacturing | O   |                   | 3-Mar-05              |             | L        | Problem Solving Tools - Delphi Overview  | 4/21 - May 19 is date for Delphi visit. Elliott working to get the right person.<br>3/17 - Gene to provide some dates by 3/18.<br>2/4/05 - John is open to giving an I&CIM overview to HB. Need to coordinate a date.<br>2/2/05 - Message to John Waller to discuss how best to support this.<br>1/6/05 - Provide an overview of Delphi problem                   | J. Elliott            |
| 322                                   | 6-Jan-05    | Manufacturing | O   |                   | 17-Mar-05             |             | M        | Chrome defect reduction effort   | 4/21 - Delphi still recommends Shainin RedX method. Hopefully can get a Hayes person trained after the Shainin overview in May.<br>3/1/05 - J. Waller to present examples of different problem solving methods during visit to HB.<br>1/6/04 - Hayes would like a person to present an example of a red x project before implementing as a process for future use | H. Dao                |
| 323                                   | 6-Jan-05    | Manufacturing | C   |                   | 1-Mar-05<br>2-Mar-05  |             | L        | Signature Analysis   | 3/2/05 - Sent Geist e-mail and magazine article to HB.<br>1/6/05 - Share information on the Quasar system for finding m/c casting defects.  | J. Elliott            |
| 324                                   | 6-Jan-05    | Opportunities | C   |                   | 4-Apr-05<br>21-Apr-05 |             | L        | Electric Brake Options   | 4/21 - Close - Hayes wants to pursue disc brake options only.<br>11/18/04 - We did electric drum brakes for the GM EV-1. Packaging space was tight in the 225mm brake, but we'd be willing to look at a small application. What size drum is most logical to evaluate?  | E. Baumgartner        |

| Hayes Brake / Delphi Action Item List |             |               |     |                   |                  |             |          |  |   |                |
|---------------------------------------|-------------|---------------|-----|-------------------|------------------|-------------|----------|--|---|----------------|
| #                                     | Date Opened | Category      | O/C | Original Due Date | Revised Due Date | Date Closed | Priority | Action Item  | Update  | Responsible    |
| 325                                   | 6-Jan-05    | Opportunities | O   |                   |                  |             |          | Electric Park Brake  | 2/3/05 - Select meeting time with Ernst Baumgartner.<br>1/6/05 - self adjusting park brake, p/b park brake - how can HB do a fast track on an e-park that fits their vehicles.  | J. Elliott     |
| 326                                   | 21-Jan-05   | Motorcycle    | C   |                   | 17-Mar-05        | 21-Mar-05   | M        | 2006 Carpe Diem Rear - Noise prevention study                                  | 3/17 - HB to communicate with H-D that we've looked at noise from a theoretical standpoint and dont see any issues. Vehicle and dyno testing to date support the analysis.<br>3/14/05 - Per Mike and Shih-Wei, not sure if any complex eigenvalue work would be worthwhile. Refer to e-mail.<br>3/2/05 - Asked Mike for an estimate on timing                       | M. Riehle      |
| 327                                   | 21-Jan-05   | Motorcycle    | C   | 31-Jan-05         | 4-Feb-05         | 17-Mar-05   | M        | 2006 Carpe Diem Rear Fade  | 3/17 - HD ran vehicle, HB ran dyno data - AI to share data.<br>2/8/05 - Sent the results of thermal analysis - any follow-up required?<br>1/21/05 - Received list of 4 cases to use for thermal performance evaluation. Mike Lee to complete by 2/4<br>1/6/05 - HB to give list of desired iterations   | K. Mike Lee    |
| 328                                   | 1-Feb-05    | Manufacturing | C   |                   |                  | 3-Feb-05    | H        | Countdown timers   | 2/3/05 - Forwarded info from Jeff Geist to Andre and Gunther.<br>2/1/05 - Share information on the countdown timers that HB saw in Dayton (Needmore Rd.)  | J. Geist       |
| 329                                   | 3-Feb-05    | Powersports   | C   | 4-Mar-05          |                  | 8-Mar-05    | L        | Determine if Delphi dynos are capable of running at snowmobile speeds for MTB. | 3/2 - Delphi dyno max capability is 2500 RPM on "C" Dyno. Bill Myers recommends Link or Greening test labs to see if they can run faster.<br>2/3 - normal touring runs at 3000-3500 RPM, max speed (120mph) runs at 6000 RPM  | J. Elliott     |
| 330                                   | 2-Mar-05    | Motorcycle    | O   | 1-Apr-05          |                  |             | M        | Predict fuel economy impact of front brake drag on the FL.                     | 3/21 - Message to Steve Butler to find out H-D sensitivity to mileage and to see if we can predict city impact.<br>3/17 - What is running time on the bench test, Can Butler estimate city mileage - what is H-D's sensitivity to fuel econ?<br>3/3 - Use bench test data to predict fuel economy.<br>3/2 - Forwarded email from Russ to Mike Lee and Steve Butler. | J. Elliott     |
| 331                                   | 3-Mar-05    | Supply Chain  | O   | 11-Mar-05         |                  |             | H        | Open discussion with Fruedenberg to leverage square seal prices.               | 3/3 - Moldex quality is the biggest issue. Get a contact name to work with by next week.  | D. Lewis       |
| 332                                   | 3-Mar-05    | Supply Chain  | O   | 11-Mar-05         |                  |             | H        | Provide qualified supplier list for bearings                                   | 3/3 - Needed for John Thomas' product development.  | D. Lewis       |
| 333                                   | 3-Mar-05    | Technical     | O   | 4-Apr-05          |                  |             | M        | Assess product audit testing to reduce the amount of testing being performed   | 3/3 - Need a Delphi reliability engineer to help out. If HB tests a part for x years with no failures, how long should they continue? Does audit need to be on the process control plan.  | J. Hegwood     |
| 334                                   | 3-Mar-05    | Off-Road      | O   | 17-Mar-05         |                  |             | M        | Set up discussion about integrating park-brake features on the Deere Gator     | 4/21 - Need brake system information on the Deere. Ernst to develop proposal for Aug tech ride.<br>3/3 - Need to find out what is available for demo, what's realistic for production? (Ryan & John Thomas for discussion on HB side)   | E. Baumgartner |
| 335                                   | 3-Mar-05    | Off-Road      | C   | 24-Mar-05         |                  | 21-Apr-05   | M        | Ship Gator to Delphi   | 4/21 - To be shipped on 4/26<br>3/17 - Call Ryan to find out if it's available to ship.<br>3/3 - Elliott to find out if there are any shipments to/from Milwaukee coming up   | J. Elliott     |

[illegible]